

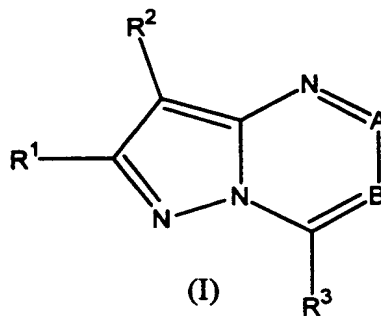
DOCKET NO.: PH-7094-A (BMS-0875)  
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PATENT

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A compound of formula I:



or a stereoisomer or pharmaceutically acceptable salt thereof, wherein:

C1 A is CR<sup>5</sup>;

B is N;

R<sup>1</sup> is independently selected from the group consisting of

H,

halogen,

CN,

C<sub>1-6</sub> alkyl,

C<sub>2-10</sub> alkenyl,

C<sub>2-10</sub> alkynyl,

C<sub>3-6</sub> cycloalkyl,

C<sub>1-6</sub> alkyloxy,

C<sub>1-6</sub> alkylS(O)<sub>n</sub>,

-NR<sup>1a</sup>R<sup>1b</sup> wherein R<sup>1a</sup> and R<sup>1b</sup> are independently selected from H, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl,

-C(O)C<sub>1-4</sub>alkyl,

$C_{1-6}$  alkylNR<sup>1a</sup>R<sup>1b</sup>,  
NR<sup>1a</sup>COR<sup>1b</sup>,  
-C(O)NR<sup>1a</sup>R<sup>1b</sup>,  
-O-C(O)C<sub>1-4</sub>alkyl,

-XR<sup>1c</sup> wherein R<sup>1c</sup> is selected from H or -C<sub>1-4</sub> alkylaryl;  
X is selected from O or S(O)<sub>n</sub>,

wherein R<sup>1</sup> is substituted with 0-6 substituents selected from halogen, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy, C<sub>1-4</sub> haloalkyl, C<sub>1-4</sub> alkylamino, C<sub>2-8</sub> dialkylamino, C<sub>1-4</sub> alkylthio, C<sub>1-4</sub> alkylsulfinyl or C<sub>1-4</sub> alkylsulfonyl;

C<sup>1</sup>  
R<sup>2</sup> is selected from the group consisting of H, OR<sup>7</sup>, SH, NR<sup>6</sup>R<sup>7</sup>, C(OH)R<sup>6</sup>R<sup>6a</sup>, C(OR<sup>7</sup>)R<sup>6</sup>R<sup>6a</sup>, S(O)<sub>n</sub>R<sup>13</sup>, COR<sup>7</sup>, CO<sub>2</sub>R<sup>7</sup>, CHR<sup>6</sup>(OR<sup>7</sup>)R<sup>6a</sup>, OC(O)R<sup>13</sup>, NO, NO<sub>2</sub>, NR<sup>6</sup>C(O)R<sup>7</sup>, N(COR<sup>7</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>6</sup>R<sup>7</sup>, NR<sup>6</sup>CO<sub>2</sub>R<sup>7</sup>; or

C<sub>1-10</sub> alkyl,  
C<sub>2-10</sub> alkenyl,  
C<sub>2-10</sub> alkynyl,  
C<sub>3-8</sub> cycloalkyl,  
C<sub>3-6</sub> cycloalkyl C<sub>1-6</sub> alkyl,  
C<sub>1-10</sub> alkyloxy,  
C<sub>1-10</sub> alkyloxyC<sub>1-10</sub> alkyl,  
-SO<sub>2</sub>-C<sub>1-10</sub>alkyl  
-SO<sub>2</sub>R<sup>2a</sup> wherein R<sup>2a</sup> is aryl,  
-SO<sub>2</sub>R<sup>2b</sup> wherein R<sup>2b</sup> is heteroaryl,  
-NR<sup>2c</sup>R<sup>2d</sup> wherein R<sup>2c</sup> and R<sup>2d</sup> are independently selected from H, C<sub>1-8</sub> alkyl, S(O)<sub>n</sub>C<sub>1-4</sub>alkyl, C(O)NR<sup>2c</sup>R<sup>2d</sup>, CO<sub>2</sub>C<sub>1-4</sub>alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxyC<sub>1-6</sub> alkyl, or -C(O)C<sub>1-4</sub>alkyl or R<sup>2c</sup> and R<sup>2d</sup> may join to form a heterocyclic ring having 0-3 heteroatoms selected from O, N or S,

- halogen,

-CN,

-C(O)-L wherein L is selected from H,  $\text{NR}^{2c}\text{R}^{2d}$ ,  $\text{C}_{1-6}$  alkyl or

$\text{OC}_{1-4}$  alkyl,  $\text{O}(\text{CH}_2)_m\text{OR}$  wherein R is  $\text{C}_{1-3}$  alkyl,

$\text{O}(\text{CH}_2)_m\text{-NR}^{2c}\text{R}^{2d}$ , OH,  $\text{C}(\text{O})\text{OC}_{1-6}$ alkyl or aryl or heteroaryl wherein m is 1-4;

-OC(O)-M wherein M is selected from  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  haloalkyl,  $\text{C}_{2-8}$  alkoxyalkyl,

$\text{C}_{3-6}$ cycloalkyl,  $\text{C}_{4-12}$  cycloalkylalkyl, aryl,  $\text{C}_{1-6}$  alkylaryl, heteroaryl,

$\text{C}_{1-6}$  alkylheteroaryl;

*C* n is 0, 1 or 2; and wherein

$\text{R}^2$  is substituted with 0-3 substituents independently selected from  $\text{R}'$ ,  $\text{R}''$ ,  $\text{R}'''$  wherein  $\text{R}'$ ,

$\text{R}''$  and  $\text{R}'''$  are independently selected from  $\text{C}_{1-6}$  alkyl,  $\text{C}_{3-7}$  cycloalkyl, hydroxy $\text{C}_{1-6}$  alkyl,  $\text{C}_{1-6}$  alkyloxy $\text{C}_{1-6}$  alkyl,  $\text{C}_{2-6}$  alkenyl,  $\text{C}_{2-6}$  alkynyl,  $\text{C}_{1-6}$  alkyloxy, hydroxy, or

$\text{R}^2$  is substituted with 0-3 substituents independently selected from:

halogen,

-CN,

-S(O) $_n\text{R}^{2e}$  wherein  $\text{R}^{2e}$  is selected from  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$  haloalkyl,  $\text{C}_{1-4}$  alkyloxy  $\text{C}_{1-4}$  alkyl,  $\text{C}_{3-6}$  cycloalkyl;

-COR $^{2f}$  wherein  $\text{R}^{2f}$  is selected from H,  $\text{C}_{1-4}$  alkyl,  $\text{C}_{1-4}$ haloalkyl,  $\text{C}_{1-4}$  alkyloxy  $\text{C}_{1-4}$  alkyl,  $\text{C}_{3-6}$  cycloalkyl, and  $\text{C}_{3-6}$  cycloalkyl $\text{C}_{1-4}$  alkyl;

-CO $_2\text{R}^{2f}$ ,

-NR $^{2g}\text{COR}^{2f}$  wherein  $\text{R}^{2g}$  is selected from H,  $\text{C}_{1-6}$  alkyl,  $\text{C}_{3-7}$  cycloalkyl,  $\text{C}_{3-6}$  cycloalkyl  $\text{C}_{1-6}$  alkyl;

-N(COR $^{2f}$ ) $_2$ ,

$-\text{NR}^{2g}\text{CONR}^{2f}\text{R}^{2h}$ , wherein  $\text{R}^{2h}$  is selected from H,  $\text{C}_{1-6}$  alkyl,  $\text{C}_{1-4}$  haloalkyl,  $\text{C}_{1-4}$  alkoxy  $\text{C}_{1-4}$  alkyl,  $\text{C}_{3-6}$  cycloalkyl and  $\text{C}_{3-6}$  cycloalkyl  $\text{C}_{1-6}$  alkyl;

$-\text{NR}^{2g}\text{CO}_2\text{R}^{2e}$ ,

$-\text{CONR}^{2g}\text{R}^{2h}$ ,

1-morpholinyl,

1-piperidinyl,

1-piperazinyl,

and

$\text{C}_{3-8}$  cycloalkyl wherein 0-1 carbon atoms in the  $\text{C}_{4-8}$  cycloalkyl is replaced by a group selected from  $-\text{O}-$ ,  $-\text{S}(\text{O})_n-$ ,  $-\text{NR}^{2g}-$ ,  $-\text{NCO}_2\text{R}^{2e}$ ,  $-\text{NCOR}^{2e}$ , and  $-\text{NSO}_2\text{R}^{2e}$ ; and wherein  $\text{N}^4$  in 1-piperazinyl is substituted with 0-1 substituents selected from  $\text{R}^{2g}$ ,  $\text{CO}_2\text{R}^{2e}$ ,  $\text{COR}^{2e}$  and  $\text{SO}_2\text{R}^{2e}$ ; or

the group  $\text{R}^{2i}$ ,  $\text{R}^{2j}$ ,  $\text{R}^{2k}$ ,  $\text{C}_{1-6}$  alkyl,  $\text{C}_{2-8}$  alkenyl,  $\text{C}_{2-8}$  alkynyl, Br, Cl, F, I,  $\text{C}_{1-4}$  haloalkyl,  $-\text{OR}^{2g}$ ,  $-\text{NR}^{2g}\text{R}^{2h}$ ,  $-\text{C}_{1-6}$  alkyl- $\text{OR}^{2g}$ , and  $\text{C}_{3-8}$  cycloalkyl which is substituted with 0-1  $\text{R}^{2i}$  and in which 0-1 carbons of  $\text{C}_{4-8}$  cycloalkyl is replaced by  $-\text{O}-$ , wherein  $\text{R}^{2i}$  is selected from aryl wherein aryl is selected from phenyl, naphthyl, indanyl and indenyl, each  $\text{R}^{2i}$  being substituted with 0-1  $\text{OR}^{2m}$  and 0-5 substituents independently selected from the group  $\text{C}_{1-6}$  alkyl,  $\text{C}_{3-6}$  cycloalkyl, Br, Cl, F, I,  $\text{C}_{1-4}$  haloalkyl,  $-\text{CN}$ , nitro,  $-\text{SH}$ ,  $-\text{S}(\text{O})_n\text{R}^{2n}$ ,  $-\text{COR}^{2m}$ ,  $-\text{OC}(\text{O})\text{R}^{2n}$ ,  $-\text{NR}^{2g}\text{COR}^{2m}$ ,  $-\text{N}(\text{COR}^{2m})_2$ ,  $-\text{NR}^{2g}\text{CONR}^{20}\text{R}^{2p}$ ,  $-\text{NR}^{2g}\text{CO}_2\text{R}^{2n}$ ,  $-\text{NR}^{20}\text{R}^{2p}$  and  $-\text{CONR}^{20}\text{R}^{2p}$ ;

$\text{R}^{2j}$  is selected from heteroaryl wherein heteroaryl is selected from pyridyl, pyrimidinyl, triazinyl, furanyl, quinolinyl, isoquinolinyl, thienyl, imidazolyl, thiazolyl, indolyl, pyrrolyl, oxazolyl, benzofuranyl, benzothienyl, benzothiazolyl, benzoxazolyl, isoxazolyl, pyrazolyl, triazolyl, tetrazolyl, indazolyl, 2,3-dihydrobenzofuranyl, 2,3-dihydrobenzothienyl, 2,3-dihydrobenzothienyl-s-oxide, 2,3-dihydro-benzothienyl-S-dioxide, indolinyl, benzoxazolin-2-onyl, benzodioxolanyl and benzodioxane, each heteroaryl being substituted on 0-4 carbon atoms with a substituent independently selected from the group  $\text{C}_{1-6}$  alkyl,  $\text{C}_{3-6}$  cycloalkyl, Br, Cl, F, I,  $\text{C}_{1-4}$  haloalkyl,  $-\text{CN}$ ,

nitro,  $OR^{2m}$ ,  $-SH$ ,  $-S(O)_nR^{2h}$ ,  $-COR^{2m}$ ,  $-OC(O)R^{2h}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $-CONR^{2o}R^{2p}$  and each heteroaryl being substituted on any nitrogen atom with 0-1 substituents selected from the group  $R^{2g}$ ,  $CO_2R^{2e}$ ,  $COR^{2e}$  and  $SO_2R^{2e}$ ;

$R^{2k}$  is heterocyclyl which is a saturated or partially saturated heteroaryl as defined for  $R^{2j}$ , each heterocyclyl being substituted on 0-4 carbon atoms with a substituent independently selected from the group  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl,  $-CN$ , nitro,  $-OR^{2m}$ ,  $-SH$ ,  $-S(O)_nR^{2h}$ ,  $-COR^{2m}$ ,  $-OC(O)R^{2h}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $-CONR^{2o}R^{2p}$  and each heterocyclyl being substituted on any nitrogen atom with 0-1 substituents selected from the group  $R^{2f}$ ,  $CO_2R^{2e}$ ,  $COR^{2e}$  and  $SO_2R^{2e}$ ;

wherein

$R^{2l}$  is H,  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl- $C_{1-4}$  alkyl or  $C_{3-8}$  cycloalkyl;

$R^{2m}$  is H,  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl  $C_{1-6}$  alkyl,  $C_{1-2}$  alkyloxy  $C_{1-2}$  alkyl,  $C_{1-4}$  haloalkyl,  $R^{2a}S(O)_n-C_{1-4}$  alkyl or  $R^{2r}R^{2s}N-C_{2-4}$  alkyl;

$R^{2n}$  is H,  $C_{1-6}$  alkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-6}$  cycloalkyl- $C_{1-6}$  alkyl,  $C_{1-2}$  alkyloxy  $C_{1-2}$  alkyl, or  $C_{1-4}$  haloalkyl;

$R^{2o}$  and  $R^{2p}$  are independently selected at each occurrence from H,  $C_{1-6}$  alkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-6}$  cycloalkyl  $C_{1-6}$  alkyl and  $C_{1-4}$  haloalkyl;

$R^{2q}$  is selected from  $C_{1-6}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkoxy-  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl-  $C_{1-6}$  alkyl, aryl, aryl( $C_{1-4}$  alkyl), heteroaryl and heteroaryl ( $C_{1-4}$  alkyl)- and benzyl, each benzyl being substituted on the aryl moiety with 0-1 substituents selected from the group  $C_{1-4}$  alkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl, nitro,  $C_{1-4}$  alkoxy  $C_{1-4}$  haloalkoxy, and dimethylamino;

$R^{2r}R^{2s}$  taken together with the N form 1-pyrrolidinyl, 1-morpholinyl, 1-piperidinyl or 1-piperazinyl wherein  $N^4$  in 1-piperiazinyl is substituted with 0-1 substituents selected from the group  $R^{2t}$ ,  $CO_2R^{2q}$ ,  $COR^{2q}$  and  $SO_2R^{2q}$ ;

$R^{2t}$  is selected from H,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkoxy- $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$  cycloalkyl- $C_{1-6}$  alkyl, aryl, aryl ( $C_{1-4}$  alkyl)-, heteroaryl and heteroaryl ( $C_{1-4}$  alkyl);

$R^3$  is an aryl or heteroaryl group attached through an unsaturated carbon atom;

C1 aryl is selected from phenyl, naphthyl, indanyl and indenyl, each aryl being substituted with 0-5 substituents independently selected at each occurrence from  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, methylenedioxy,  $C_{1-4}$  alkyloxy- $C_{1-4}$  alkyloxy,  $-OR^{2m}$ , Br, Cl, F, I,  $C_{1-4}$  haloalkyl,  $-CN$ ,  $-NO_2$ ,  $-SH$ ,  $-S(O)_nR^{2n}$ ,  $-COR^{2m}$ ,  $-CO_2R^{2m}$ ,  $-OC(O)R^{2n}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $CONR^{2o}R^{2p}$ ;

heteroaryl is selected from the group pyridyl, pyrimidyl, triazinyl, furanyl, quinolinyl, isoquinolinyl, thienyl, imidazolyl, thiazolyl, indolyl, pyrrolyl, oxazolyl, benzofuranyl, benzothienyl, benzothiazolyl, benzoxazolyl, isoxazolyl, triazolyl, tetrazolyl, indazolyl, 2,3-dihydrobenzo-furanyl, 2,3-dihydrobenzothienyl, 2,3-dihydro-benzothienyl-S-oxide, 2,3-dihydrobenzothienyl-s-dioxide, indolinyl, benzoxazolin-2-on-yl, benzodioxolanyl and benzodioxane, each heteroaryl being substituted at 0-4 carbon atoms with a substituent independently selected at each occurrence from the group  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, F, I,  $C_{1-4}$  haloalkyl,  $-CN$ ,  $NR^{2g}R^{2h}$ , nitro,  $-OR^{2m}$ ,  $-SH$ ,  $-S(O)_nR^{2n}$ ,  $COR^{2m}$ ,  $-CO_2R^{2m}$ ,  $-OC(O)R^{2n}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$  and each heteroaryl being substituted at any nitrogen atom with 0-1 substituents selected from the group  $R^{2g}$ ,  $CO_2R^{3a}$ ,  $COR^{3a}$  and  $SO_2R^{3a}$  wherein,

$R^{3a}$  is selected from the group  $C_{1-6}$  alkyl,  $C_{1-4}$  cycloalkyl- $C_{1-6}$  alkyl and benzyl, each benzyl being substituted on the aryl moiety with 0-1 substituents selected from the group  $C_{1-4}$

alkyl, Br, Cl, F, I, C<sub>1-4</sub> haloalkyl, nitro, C<sub>1-4</sub> alkoxy, C<sub>1-4</sub> haloalkoxy, and dimethylamino;

C<sup>1</sup>  
R<sup>4</sup> and R<sup>5</sup> are independently selected at each occurrence from H, Br, Cl, F, I, -CN, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy, C<sub>1-6</sub> alkylthio, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkylsulfonyl, amino, C<sub>1-4</sub> alkylamino, (C<sub>1-4</sub> alkyl)<sub>2</sub> amino and phenyl, each phenyl is substituted with 0-3 groups selected from the group consisting of C<sub>1-7</sub> alkyl, C<sub>3-8</sub> cycloalkyl, Br, Cl, F, I, -C(O)H, C<sub>1-4</sub> haloalkyl, nitro, C<sub>1-4</sub> alkoxy, C<sub>1-4</sub> haloalkoxy, C<sub>1-4</sub> alkylthio, C<sub>1-4</sub> alkylsulfinyl, C<sub>1-4</sub> alkylsulfonyl, C<sub>1-6</sub> alkylamino and (C<sub>1-4</sub> alkyl)<sub>2</sub> amino and wherein R<sup>4</sup> and R<sup>5</sup> non-phenyl groups may be substituted with 0-5 substituents selected from OH, halogen, -C(O)H, -OC<sub>1-6</sub>-alkyl and C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkyl, C<sub>3-7</sub> c-alkyl, C<sub>1-6</sub> alkyl(OH)<sub>n</sub>CO<sub>2</sub>R wherein R is H or C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkyl(OH)<sub>n</sub>, wherein n is 0-3 or R<sup>4</sup> and R<sup>5</sup> may join together to form a C<sub>3-6</sub> alkylene chain;

R<sup>6</sup>, R<sup>6a</sup> and R<sup>7</sup> are independently selected from: H, C<sub>1-10</sub> alkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> alkenyl, C<sub>3-10</sub> alkynyl, C<sub>1-10</sub> haloalkyl, C<sub>2-8</sub> alkoxyalkyl, C<sub>4-12</sub> cycloalkylalkyl, C<sub>5-10</sub> cycloalkenyl, and C<sub>6-14</sub> cycloalkenylalkyl;

R<sup>6</sup>, R<sup>6a</sup> and R<sup>7</sup> are substituted with 0-6 substituents independently selected from halogen, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy and C<sub>1-4</sub> haloalkyl;

with the that the compounds of Formula I with R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> as specifically defined below are excluded:

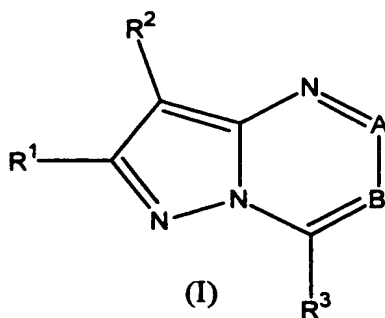
(a) a compound of formula I wherein R<sup>5</sup> is ~~o-hydroxyphenyl~~ hydroxyphenyl, R<sup>3</sup> is ~~o-hydroxyphenyl~~ hydroxyphenyl, R<sup>1</sup> is SMe and R<sup>2</sup> is CN ;

(b) a compound of formula I wherein R<sup>5</sup> is CH<sub>3</sub>, R<sup>1</sup> is Ph, R<sup>2</sup> is Br and R<sup>3</sup> is Ph;

- (e) a compound of formula I wherein R<sup>5</sup> is ethyl, R<sup>1</sup> is Me, R<sup>2</sup> is H and R<sup>3</sup> is N-methyl-piperazin-N-yl;
- (f) a compound of formula I wherein R<sup>5</sup> is ~~p-Cl-Ph~~ Cl-Ph, R<sup>1</sup> is H, R<sup>2</sup> is H and R<sup>3</sup> is ~~p-CF<sub>3</sub>-Ph~~ CF<sub>3</sub>-Ph;
- (g) a compound of formula I wherein R<sup>5</sup> is p-Cl-Ph, R<sup>1</sup> is CH<sub>3</sub>, R<sup>2</sup> is H, R<sup>3</sup> is ~~p-CF<sub>3</sub>-Ph~~ CF<sub>3</sub>-Ph;
- (h) a compound of formula I wherein R<sup>5</sup> is Ph, R<sup>1</sup> is Me, R<sup>2</sup> is H, R<sup>3</sup> is ~~p-CF<sub>3</sub>-Ph~~ CF<sub>3</sub>-Ph;
- C<sup>1</sup> (i) a compound of formula I wherein R<sup>5</sup> is Ph, R<sup>1</sup> is H, R<sup>2</sup> is H, R<sup>3</sup> is ~~p-CF<sub>3</sub>-Ph~~ CF<sub>3</sub>-Ph;
- (j) a compound of formula I wherein R<sup>3</sup> is Ph and R<sup>2</sup> is H, Br, CN, CO<sub>2</sub>Et or Cl ;
- (k) a compound of formula I wherein R<sup>5</sup> is CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub> or Ph, R<sup>1</sup> is H, R<sup>2</sup> is H and R<sup>3</sup> is Ph.

2. (currently amended)

A compound of formula I:



or a stereoisomer or pharmaceutically acceptable salt thereof, wherein:

A is CR<sup>5</sup>;



B is N

R<sup>1</sup> is independently selected from the group consisting of

H,

halogen,

CN,

C<sub>1-6</sub> alkyl,

C<sub>2-10</sub> alkenyl,

C<sub>2-10</sub> alkynyl,

C<sub>3-6</sub> cycloalkyl,

C<sub>1-6</sub> alkyloxy,

C<sub>1-6</sub> alkylS(O)<sub>n</sub>,

-NR<sup>1a</sup>R<sup>1b</sup> wherein R<sup>1a</sup> and R<sup>1b</sup> are independently selected from

H, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl, -C(O)C<sub>1-4</sub>alkyl,

C<sub>1-6</sub> alkylNR<sup>1a</sup>R<sup>1b</sup>,

NR<sup>1a</sup>COR<sup>1b</sup>,

-C(O)NR<sup>1a</sup>R<sup>1b</sup>,

-O-C(O)C<sub>1-4</sub>alkyl,

-XR<sup>1c</sup> wherein R<sup>1c</sup> is selected from H or -C<sub>1-4</sub> alkylaryl;

X is selected from O or S(O)<sub>n</sub>,

wherein R<sup>1</sup> is substituted with 0-6 substituents selected from halogen, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy, C<sub>1-4</sub> haloalkyl, C<sub>1-4</sub>alkylamino, C<sub>2-8</sub>dialkylamino, C<sub>1-4</sub>alkyloxy, C<sub>1-4</sub> alkylthio, C<sub>1-4</sub> alkylsulfinyl or C<sub>1-4</sub> alkylsulfonyl;

C

$R^2$  is selected from the group consisting of  $OR^7$ ,  $SH$ ,  $NR^6R^7$ ,  $C(OH)R^6R^{6a}$ ,  $C(OR^7)R^6R^{6a}$ ,  $S(O)_nR^{13}$ ,  $COR^7$ ,  $CO_2R^7$ ,  $CHR^6(OR^7)R^{6a}$ ,  $OC(O)R^{13}$ ,  $NO$ ,  $NO_2$ ,  $NR^6C(O)R^7$ ,  $N(COR^7)_2$ ,  $NR^8CONR^6R^7$  or  $NR^6CO_2R^7$ ;

or  $R^2$  is selected from:

$C_{1-10}$  alkyl,

$C_{2-10}$  alkenyl,

$C_{2-10}$  alkynyl,

$C_{3-8}$  cycloalkyl,

$C_{3-6}$  cycloalkyl  $C_{1-6}$  alkyl,

$C_{1-10}$  alkyloxy,

$C_{1-10}$  alkyloxy  $C_{1-10}$  alkyl,

$-SO_2-C_{1-10}$ alkyl

$-SO_2R^{2a}$  wherein  $R^{2a}$  is aryl,

$-SO_2R^{2b}$  wherein  $R^{2b}$  is heteroaryl,

$-NR^{2c}R^{2d}$  wherein  $R^{2c}$  and  $R^{2d}$  are independently selected from H,  $C_{1-8}$  alkyl,  $S(O)_nC_{1-4}$ alkyl,

$C(O)NR^{2c}R^{2d}$ ,  $CO_2C_{1-4}$ alkyl,  $C_{3-8}$  cycloalkyl,  $C_{1-6}$  alkyloxy  $C_{1-6}$  alkyl,

~~$-C(O)C_{1-4}$ alkyl or  $R^{2c}$  and  $R^{2d}$  may join to form a heterocyclic ring having 0-3 heteroatoms selected from O, N or S,~~

$-C(O)-L$  wherein L is selected from H,  $NR^{2c}R^{2d}$ , and  $C_{1-6}$  alkyl  $O(CH_2)_mOR$  wherein R is

$C_{1-3}$  alkyl,  $O(CH_2)_m-NR^{2c}R^{2d}$ , OH,  $C(O)OC_{1-6}$ alkyl, or aryl or heteroaryl wherein m is 1-4; or

$-OC(O)-M$  wherein M is selected from  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{2-8}$  alkoxyalkyl,

$C_{3-6}$  cycloalkyl,  $C_{4-12}$  cycloalkylalkyl, aryl,  $C_{1-6}$  alkylaryl, heteroaryl, and  $C_{1-6}$  alkylheteroaryl;

n is 0, 1 or 2; and wherein

$R^2$  is substituted with 0-3 substituents independently selected from  $R'$ ,  $R''$ ,  $R'''$  wherein  $R'$ ,  $R''$  and  $R'''$  are independently selected from  $C_{1-6}$  alkyl,  $C_{3-7}$  cycloalkyl, hydroxy $C_{1-6}$  alkyl,  $C_{1-6}$  alkyloxy $C_{1-6}$  alkyl,  $C_{2-6}$  alkenyl,  $C_{2-6}$  alkynyl,  $C_{1-6}$  alkyloxy, and hydroxy, or

$R^2$  is substituted with 0-3 substituents independently selected from:

halogen,

-CN,

-S(O) $_n$  $R^{2e}$  wherein  $R^{2e}$  is selected from  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkyloxy  $C_{1-4}$  alkyl, and  $C_{3-6}$  cycloalkyl;

-COR $^{2f}$  wherein  $R^{2f}$  is selected from H,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkyloxy  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl, and  $C_{3-6}$  cycloalkyl $C_{1-4}$  alkyl;

-CO $_2$  $R^{2f}$ ,

-NR $^{2g}$ COR $^{2f}$  wherein  $R^{2g}$  is selected from H,  $C_{1-6}$  alkyl,  $C_{3-7}$  cycloalkyl, and  $C_{3-6}$  cycloalkyl $C_{1-6}$  alkyl;

-N(COR $^{2f}$ ) $_2$ ,

-NR $^{2g}$ CONR $^{2f}$  $R^{2h}$ , wherein  $R^{2h}$  is selected from H,  $C_{1-6}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkoxy  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl and  $C_{3-6}$  cycloalkyl $C_{1-6}$  alkyl;

-NR $^{2g}$ CO $_2$  $R^{2e}$ ,

-CONR $^{2g}$  $R^{2h}$ ,

1-morpholinyl,

1-piperidinyl,

1-piperazinyl,

and

$C_{3-8}$  cycloalkyl wherein 0-1 carbon atoms in the  $C_{4-8}$  cycloalkyl is replaced by a group selected from -O-, -S(O) $_n$ -, -NR $^{2g}$ -, -NCO $_2$  $R^{2e}$ -, -NCOR $^{2e}$ -, and -NSO $_2$  $R^{2e}$ -, and wherein  $N^4$  in 1-piperazinyl is substituted with 0-1 substituents selected from  $R^{2g}$ , CO $_2$  $R^{2e}$ , COR $^{2e}$  and SO $_2$  $R^{2e}$ -, or

the group  $R^{2i}$ ,  $R^{2j}$ ,  $R^{2k}$ ,  $C_{1-6}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl,  $-OR^{2g}$ ,  $-NR^{2g}R^{2h}$ ,  $-C_{1-6}$  alkyl- $OR^{2g}$ , and  $C_{3-8}$  cycloalkyl which is substituted with 0-1  $R^{2i}$  and in which 0-1 carbons of  $C_{4-8}$  cycloalkyl is replaced by -O-, wherein

$R^{2i}$  is selected from aryl wherein aryl is selected from phenyl, naphthyl, indanyl and indenyl, each  $R^{2i}$  being substituted with 0-1  $OR^{2m}$  and 0-5 substituents independently selected from the group  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl, -CN, nitro, -SH,  $-S(O)_nR^{2n}$ ,  $-COR^{2m}$ ,  $-OC(O)R^{2n}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2n}$ ,  $-NR^{2o}R^{2p}$  and  $-CONR^{2o}R^{2p}$ ;

C1  $R^{2j}$  is selected from heteroaryl wherein heteroaryl is selected from pyridyl, pyrimidinyl, triazinyl, furanyl, quinoliny, isoquinoliny, thienyl, imidazolyl, thiazolyl, indolyl, pyrrolyl, oxazolyl, benzofuranyl, benzothienyl, benzothiazolyl, benzoxazolyl, isoxazolyl, pyrazolyl, triazolyl, tetrazolyl, indazolyl, 2,3-dihydrobenzofuranyl, 2,3-dihydrobenzothienyl, 2,3-dihydrobenzothienyl-s-oxide, 2,3-dihydro-benzothienyl-S-dioxide, indoliny, benzoxazolin-2-onyl, benzodioxolanyl and benzodioxane, each heteroaryl being substituted on 0-4 carbon atoms with a substituent independently selected from the group  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl, -CN, nitro,  $OR^{2m}$ , -SH,  $-S(O)_nR^{2h}$ ,  $-COR^{2m}$ ,  $-OC(O)R^{2h}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $-CONR^{2o}R^{2p}$  and each heteroaryl being substituted on any nitrogen atom with 0-1 substituents selected from the group  $R^{2g}$ ,  $CO_2R^{2e}$ ,  $COR^{2e}$  and  $SO_2R^{2e}$ ;

$R^{2k}$  is heterocyclyl which is a saturated or partially saturated heteroaryl as defined for  $R^{2j}$ , each heterocyclyl being substituted on 0-4 carbon atoms with a substituent independently selected from the group  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl, -CN, nitro,  $-OR^{2m}$ , -SH,  $-S(O)_nR^{2h}$ ,  $-COR^{2m}$ ,  $-OC(O)R^{2h}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $-CONR^{2o}R^{2p}$  and each heterocyclyl being substituted on any nitrogen atom with 0-1 substituents selected from the group  $R^{2f}$ ,  $CO_2R^{2e}$ ,  $COR^{2e}$  and  $SO_2R^{2e}$ ;

wherein

$R^{2l}$  is H,  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl- $C_{1-4}$  alkyl or  $C_{3-8}$  cycloalkyl;

$R^{2m}$  is H,  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl  $C_{1-6}$  alkyl,  $C_{1-2}$  alkyloxy  $C_{1-2}$  alkyl,  $C_{1-4}$  haloalkyl,  
 $R^{2q}S(0)_n-C_{1-4}$  alkyl or  $R^{2r}R^{2s}N-C_{2-4}$  alkyl;

$R^{2n}$  is H,  $C_{1-6}$  alkyl,  $C_{3-10}$  cycloalkyl,  $C_{3-6}$  cycloalkyl- $C_{1-6}$  alkyl,  $C_{1-2}$  alkyloxy  $C_{1-2}$  alkyl, or  
 $C_{1-4}$  haloalkyl;

C 1  $R^{2o}$  and  $R^{2p}$  are independently selected at each occurrence from H,  $C_{1-6}$  alkyl,  $C_{3-10}$   
cycloalkyl,  $C_{3-6}$  cycloalkyl  $C_{1-6}$  alkyl and  $C_{1-4}$  haloalkyl;

$R^{2q}$  is selected from  $C_{1-6}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkoxy-  $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$   
cycloalkyl-  $C_{1-6}$  alkyl, aryl, aryl( $C_{1-4}$  alkyl), heteroaryl and heteroaryl ( $C_{1-4}$  alkyl)- and  
benzyl, each benzyl being substituted on the aryl moiety with 0-1 substituents selected  
from the group  $C_{1-4}$  alkyl, Br, Cl, F, I,  $C_{1-4}$  haloalkyl, nitro,  $C_{1-4}$  alkoxy  $C_{1-4}$   
haloalkoxy, and dimethylamino;

$R^{2r}R^{2s}$  taken together with the N form 1-pyrrolidinyl, 1-morpholinyl, 1-piperidinyl or 1-  
piperazinyl wherein  $N^4$  in 1-piperiazinyl is substituted with 0-1 substituents selected  
from the group  $R^{2t}$ ,  $CO_2R^{2q}$ ,  $COR^{2q}$  and  $SO_2R^{2q}$ ;

$R^{2t}$  is selected from H,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $C_{1-4}$  alkoxy - $C_{1-4}$  alkyl,  $C_{3-6}$  cycloalkyl,  $C_{3-6}$   
cycloalkyl -  $C_{1-6}$  alkyl, aryl, aryl ( $C_{1-4}$  alkyl)-, heteroaryl and heteroaryl ( $C_{1-4}$  alkyl);

$R^3$  is selected from an aryl or heteroaryl group attached through an unsaturated carbon atom;

aryl is selected from phenyl, naphthyl, indanyl and indenyl, each aryl being substituted with 0-5 substituents independently selected at each occurrence from C<sub>1-6</sub> alkyl, C<sub>3-6</sub> cycloalkyl, methylenedioxy, C<sub>1-4</sub> alkyloxy-C<sub>1-4</sub> alkyloxy, -OR<sup>2m</sup>, Br, Cl, F, I, C<sub>1-4</sub> haloalkyl, -CN, -NO<sub>2</sub>, -SH, -S(O)<sub>n</sub>R<sup>2n</sup>, -COR<sup>2m</sup>, -CO<sub>2</sub>R<sup>2m</sup>, -OC(O)R<sup>2n</sup>, -NR<sup>2g</sup>COR<sup>2m</sup>, -N(COR<sup>2m</sup>)<sub>2</sub>, -NR<sup>2g</sup>CONR<sup>2o</sup>R<sup>2p</sup>, -NR<sup>2g</sup>CO<sub>2</sub>R<sup>2h</sup>, -NR<sup>2o</sup>R<sup>2p</sup> and CONR<sup>2o</sup>R<sup>2p</sup>;

CI heteroaryl is selected from the group pyridyl, pyrimidyl, triazinyl, furanyl, quinolinyl, isoquinolinyl, thienyl, imidazolyl, thiazolyl, indolyl, pyrrolyl, oxazolyl, benzofuranyl, benzothienyl, benzothiazolyl, benzoxazolyl, isoxazolyl, triazolyl, tetrazolyl, indazolyl, 2,3-dihydrobenzo-furanyl, 2,3-dihydrobenzothienyl, 2,3-dihydro-benzothienyl-S-oxide, 2,3-dihydrobenzothienyl-s-dioxide, indolinyl, benzoxazolin-2-on-yl, benzodioxolanyl and benzodioxane, each heteroaryl being substituted at 0-4 carbon atoms with a substituent independently selected at each occurrence from C<sub>1-6</sub> alkyl, C<sub>3-6</sub> cycloalkyl, Br, F, I, C<sub>1-4</sub> haloalkyl, -CN, NR<sup>2g</sup>R<sup>2h</sup>, nitro, -OR<sup>2m</sup>, -SH, -S(O)<sub>n</sub>R<sup>2n</sup>, COR<sup>2m</sup>, -CO<sub>2</sub>R<sup>2m</sup>, -OC(O)R<sup>2n</sup>, -NR<sup>2g</sup>COR<sup>2m</sup>, -N(COR<sup>2m</sup>)<sub>2</sub>, and -NR<sup>2g</sup>CONR<sup>2o</sup>R<sup>2p</sup> and each heteroaryl being substituted at any nitrogen atom with 0-1 substituents selected from the group R<sup>2g</sup>, CO<sub>2</sub>R<sup>3a</sup>, COR<sup>3a</sup> and SO<sub>2</sub>R<sup>3a</sup> wherein,

R<sup>3a</sup> is selected from the group C<sub>1-6</sub> alkyl, C<sub>1-4</sub> cycloalkyl-C<sub>1-6</sub> alkyl and benzyl, each benzyl being substituted on the aryl moiety with 0-1 substituents selected from the group C<sub>1-4</sub> alkyl, Br, Cl, F, I, C<sub>1-4</sub> haloalkyl, nitro, C<sub>1-4</sub> alkoxy, C<sub>1-4</sub> haloalkoxy, and dimethylamino;

R<sup>4</sup> and R<sup>5</sup> are independently selected at each occurrence from H, Br, Cl, F, I, -CN, C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy, C<sub>1-6</sub> alkylthio, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkylsulfonyl, amino, C<sub>1-4</sub> alkylamino, (C<sub>1-4</sub> alkyl)<sub>2</sub> amino and phenyl, each phenyl is substituted with 0-3 groups selected from the group consisting of C<sub>1-7</sub> alkyl, C<sub>3-8</sub> cycloalkyl, Br, Cl, F, I, -C(O)H, C<sub>1-4</sub> haloalkyl, nitro, C<sub>1-4</sub> alkoxy, C<sub>1-4</sub> haloalkoxy, C<sub>1-4</sub> alkylthio, C<sub>1-4</sub> alkylsulfinyl, C<sub>1-4</sub> alkylsulfonyl, C<sub>1-6</sub> alkylamino and (C<sub>1-4</sub> alkyl)<sub>2</sub> amino and wherein R<sup>4</sup> and R<sup>5</sup> non-phenyl groups may be substituted with 0-5 substituents selected from OH, halogen, -C(O)H, -OC<sub>1-6</sub>-alkyl and C<sub>1-6</sub>

haloalkyl, C<sub>1-6</sub> alkyl, C<sub>3-7</sub> c-alkyl, C<sub>1-6</sub> alkyl(OH)<sub>n</sub>CO<sub>2</sub>R wherein R is H or C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkyl(OH)<sub>n</sub>, wherein n is 0-3 or R<sup>4</sup> and R<sup>5</sup> may join together to form a C<sub>3-6</sub> alkylene chain;

R<sup>6</sup>, R<sup>6a</sup> and R<sup>7</sup> are independently selected from: H, C<sub>1-10</sub> alkyl, C<sub>3-10</sub> cycloalkyl, C<sub>3-10</sub> alkenyl, C<sub>3-10</sub> alkynyl, C<sub>1-10</sub> haloalkyl, C<sub>2-8</sub> alkoxyalkyl, C<sub>4-12</sub> cycloalkylalkyl, C<sub>5-10</sub> cycloalkenyl, and C<sub>6-14</sub> cycloalkenylalkyl; and

R<sup>6</sup>, R<sup>6a</sup> and R<sup>7</sup> are substituted with 0-6 substituents independently selected from halogen, C<sub>1-4</sub> alkyl, C<sub>3-8</sub> cycloalkyl, C<sub>1-6</sub> alkyloxy, and C<sub>1-4</sub> haloalkyl;  
with the proviso that when R<sup>2</sup> is CO<sub>2</sub>Et and R<sup>3</sup> is Ph, R<sup>1</sup> is not H.

C1 3. (canceled previously)

3  
4. (amended previously) The compound according to Claim 1 or 2 wherein

R<sup>1</sup> is selected from C<sub>1-6</sub> alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkylthio, and -XR<sup>1c</sup> wherein R<sup>1</sup> is substituted with 0-6 substituents selected from halogen, C<sub>1-4</sub> alkyl or C<sub>1-4</sub> haloalkyl;

R<sup>2</sup> is selected from C<sub>1-10</sub> alkyl, C<sub>2-10</sub> alkenyl, C<sub>2-10</sub> alkynyl, C<sub>3-8</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl C<sub>1-6</sub> alkyl, and -NR<sup>2c</sup>R<sup>2d</sup> wherein R<sup>2</sup> is unsubstituted or substituted with 1-3 substituents independently selected from the group R<sup>2i</sup>, R<sup>2j</sup>, R<sup>2k</sup>, C<sub>1-6</sub> alkyl, C<sub>2-8</sub> alkenyl, C<sub>2-8</sub> alkynyl, Br, Cl, F, I, C<sub>1-4</sub> haloalkyl, -OR<sup>2g</sup>, -NR<sup>2g</sup>R<sup>2h</sup>, -C<sub>1-6</sub> alkyl-OR<sup>2g</sup>, and C<sub>3-8</sub> cycloalkyl which is substituted with 0-1 R<sup>2i</sup> and in which 0-1 carbons of C<sub>4-8</sub> cycloalkyl is replaced by -O-.

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5. (amended previously) The compound according to Claim 1 or 2 wherein R<sup>3</sup> is phenyl substituted with 0-5 substituents independently selected at each occurrence from C<sub>1-6</sub> alkyl, C<sub>3-6</sub> cycloalkyl, methylenedioxy, C<sub>1-4</sub> alkyloxy-C<sub>1-4</sub> alkyloxy, -OR<sup>2m</sup>, Br, Cl, F, I, C<sub>1-4</sub> haloalkyl, -CN, -NO<sub>2</sub>, -SH, -S(O)<sub>n</sub>R<sup>2n</sup>, -COR<sup>2m</sup>, -CO<sub>2</sub>R<sup>2m</sup>, -OC(O)R<sup>2n</sup>, -NR<sup>2g</sup>COR<sup>2m</sup>, -

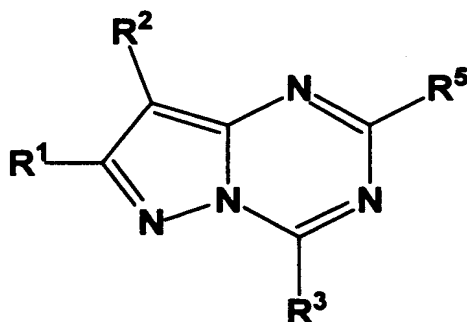
$N(COR^{2m})_2$ ,  $-NR^{2g}CONR^{2o}R^{2p}$ ,  $-NR^{2g}CO_2R^{2h}$ ,  $-NR^{2o}R^{2p}$  and  $CONR^{2o}R^{2p}$ ; or pyridyl substituted at 0-4 carbon atoms with a substituent independently selected from  $C_{1-6}$  alkyl,  $C_{3-6}$  cycloalkyl, Br, F, I,  $C_{1-4}$  haloalkyl,  $-CN$ ,  $NR^{2g}R^{2h}$ , nitro,  $-OR^{2m}$ ,  $-SH$ ,  $-S(O)_nR^{2n}$ ,  $COR^{2m}$ ,  $-CO_2R^{2m}$ ,  $-OC(O)R^{2n}$ ,  $-NR^{2g}COR^{2m}$ ,  $-N(COR^{2m})_2$ , and  $-NR^{2g}CONR^{2o}R^{2p}$ .

5

6. (amended previously) The compounds according to Claim 1 or 2 wherein  $R^3$  is substituted with 0-4 substituents independently selected from halogen,  $C_{1-4}$  alkyloxy,  $C_{1-6}$  alkyl and  $NR'R''$  wherein  $R'$  and  $R''$  are independently selected from H and  $C_{1-6}$  alkyl.

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7. (currently amended) A compound of formula (Ia)



(Ia)

or a pharmaceutically acceptable salt thereof, wherein

$R^1$  is independently selected at each occurrence from H,  $C_1$ - $C_4$  alkyl,  $C_2$ - $C_4$  alkenyl,  $C_2$ - $C_4$  alkynyl, halo, CN,  $C_1$ - $C_4$  haloalkyl,  $C_1$ - $C_{12}$  hydroxyalkyl,  $C_2$ - $C_{12}$  alkoxyalkyl,  $C_2$ - $C_{10}$  cyanoalkyl,  $C_3$ - $C_6$  cycloalkyl,  $C_4$ - $C_{10}$  cycloalkylalkyl,  $NR^9R^{10}$ ,  $C_1$ - $C_4$  alkyl- $NR^9R^{10}$ ,  $NR^9COR^{10}$ ,  $OR^{11}$ , SH or  $S(O)_nR^{12}$ ;

$R^2$  is selected from:

$-H$ ,  $OR^7$ ,  $SH$ ,  $S(O)_nR^{13}$ ,  $COR^7$ ,  $CO_2R^7$ ,  $CHR^6(OR^7)R^{6a}$ ,  $OC(O)R^{13}$ ,  $CH(OH)R^6$ ,  $C(OH)R^6R^{6a}$ ,  $C(OR^7)R^6R^{6a}$ ,  $NO$ ,  $NO_2$ ,  $NR^6COR^7$ ,  $N(COR^7)_2$ ,  $NR^8CONR^6R^7$ ,  $NR^6CO_2R^7$ ,  $NR^6R^7$ ,  $NR^6S(O)_2R^7$ ,  $N(S(O)_2R^7)_2$ ,  $N(OR^7)R^6$ ,  $CONR^6R^7$ ;

or

C



-C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>5</sub>-C<sub>8</sub> cycloalkenyl, C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl or C<sub>6</sub>-C<sub>10</sub> cycloalkenylalkyl, each optionally substituted with 1 to 3 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>13</sup>, COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>, OC(O)R<sup>13</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>13</sup>, NR<sup>16</sup>R<sup>15</sup>, CONR<sup>16</sup>R<sup>15</sup>;

C<sup>1</sup>  
R<sup>3</sup> is selected from phenyl, naphthyl, pyridyl, pyrimidinyl, triazinyl, furanyl, thienyl, benzothienyl, benzofuranyl, 2,3-dihydrobenzofuranyl, 2,3-dihydrobenzothienyl, indanyl, 1,2-benzopyranyl, 3,4-dihydro-1,2-benzopyranyl, tetralinyl, each R<sup>3</sup> optionally substituted with 1 to 5 substituents and each Ar is attached via an unsaturated carbon atom wherein the substituents are independently selected at each occurrence from: C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl, NO<sub>2</sub>, halo, CN, C<sub>1</sub>-C<sub>4</sub> haloalkyl, NR<sup>6</sup>R<sup>7</sup>, NR<sup>8</sup>COR<sup>7</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>7</sup>, COR<sup>7</sup>, OR<sup>7</sup>, CONR<sup>6</sup>R<sup>7</sup>, CO(NOR<sup>9</sup>)R<sup>7</sup>, CO<sub>2</sub>R<sup>7</sup>, or S(O)<sub>n</sub>R<sup>7</sup>, where each such C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl and C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl are optionally substituted with 1 to 3 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>4</sub> alkyl, NO<sub>2</sub>, halo, CN, NR<sup>6</sup>R<sup>7</sup>, NR<sup>6</sup>COR<sup>7</sup>, NR<sup>7</sup>CO<sub>2</sub>R<sup>7</sup>, COR<sup>7</sup> OR<sup>7</sup>, CONR<sup>6</sup>R<sup>7</sup>, CO<sub>2</sub>R<sup>7</sup>, CO(NOR<sup>9</sup>)R<sup>7</sup>, or S(O)<sub>n</sub>R<sup>7</sup>;

R<sup>5</sup> is selected from H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>2</sub>-C<sub>4</sub> alkenyl, C<sub>2</sub>-C<sub>4</sub> alkynyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>4</sub>-C<sub>10</sub> cycloalkylalkyl, each optionally substituted with 1 to 3 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl; halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>13</sup>, COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>, OC(O)R<sup>13</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>13</sup>, NR<sup>16</sup>R<sup>15</sup>, CONR<sup>16</sup>R<sup>15</sup>, aryl, heteroaryl and heterocyclyl;  
or  
halo, CN, -NR<sup>6</sup>R<sup>7</sup>, NR<sup>9</sup>COR<sup>10</sup>, -NR<sup>6</sup>S(O)<sub>n</sub>R<sup>7</sup>, S(O)<sub>n</sub>NR<sup>6</sup>R<sup>7</sup>, C<sub>1</sub>-C<sub>4</sub> haloalkyl, -OR<sup>7</sup>, SH or -S(O)<sub>n</sub>R<sup>12</sup>;

R<sup>6</sup>, R<sup>6a</sup> and R<sup>7</sup> are independently selected at each occurrence from:  
-H,

-C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> alkynyl, C<sub>1</sub>-C<sub>10</sub> haloalkyl with 1-10 halogens, C<sub>2</sub>-C<sub>8</sub> alkoxyalkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl, C<sub>5</sub>-C<sub>10</sub> cycloalkenyl, or C<sub>6</sub>-C<sub>14</sub> cycloalkenylalkyl, each optionally substituted with 1 to 3 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>13</sup>, COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>, OC(O)R<sup>13</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>13</sup>, NR<sup>16</sup>R<sup>15</sup>, CONR<sup>16</sup>R<sup>15</sup>, aryl, heteroaryl or heterocyclyl,  
-aryl, aryl(C<sub>1</sub>-C<sub>4</sub> alkyl), heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub> alkyl), heterocyclyl or heterocyclyl(C<sub>1</sub>-C<sub>4</sub> alkyl);

C<sup>1</sup>  
alternatively, NR<sup>6</sup>R<sup>7</sup> and NR<sup>6a</sup>R<sup>7a</sup> are independently piperidine, pyrrolidine, piperazine, N-methylpiperazine, morpholine or thiomorpholine, each optionally substituted with 1-3 C<sub>1</sub>-C<sub>4</sub> alkyl groups;

R<sup>8</sup> is independently selected at each occurrence from H or C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>9</sup> and R<sup>10</sup> are independently selected at each occurrence from H, C<sub>1</sub>-C<sub>4</sub> alkyl, or C<sub>3</sub>-C<sub>6</sub> cycloalkyl;

R<sup>11</sup> is selected from H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> haloalkyl, or C<sub>3</sub>-C<sub>6</sub> cycloalkyl;

R<sup>12</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl or C<sub>1</sub>-C<sub>4</sub> haloalkyl;

R<sup>13</sup> is selected from C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> haloalkyl, C<sub>2</sub>-C<sub>8</sub> alkoxyalkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub> alkyl)-, heteroaryl or heteroaryl(C<sub>1</sub>-C<sub>4</sub> alkyl)-;

R<sup>15</sup> and R<sup>16</sup> are independently selected at each occurrence from H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>4</sub>-C<sub>16</sub> cycloalkylalkyl, except that for S(O)<sub>n</sub>R<sup>15</sup>, R<sup>15</sup> cannot be H;

aryl is phenyl or naphthyl, each optionally substituted with 1 to 5 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>15</sup>, COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>,

OC(O)R<sup>15</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>15</sup>,  
NR<sup>16</sup>R<sup>15</sup>, and CONR<sup>16</sup>R<sup>15</sup>;

heteroaryl is pyridyl, pyrimidinyl, triazinyl, furanyl, pyranyl, quinolinyl, isoquinolinyl, thienyl, imidazolyl, thiazolyl, indolyl, pyrrolyl, oxazolyl, benzofuranyl, benzothienyl, benzothiazolyl, isoxazolyl, pyrazolyl, 2,3-dihydrobenzothienyl or 2,3-dihydrobenzofuranyl, each being optionally substituted with 1 to 5 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>15</sup>, -COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>, OC(O)R<sup>15</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>15</sup>, NR<sup>16</sup>R<sup>15</sup>, and CONR<sup>16</sup>R<sup>15</sup>;

C<sup>1</sup>  
heterocyclyl is saturated or partially saturated heteroaryl, optionally substituted with 1 to 5 substituents independently selected at each occurrence from C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, halo, C<sub>1</sub>-C<sub>4</sub> haloalkyl, cyano, OR<sup>15</sup>, SH, S(O)<sub>n</sub>R<sup>15</sup>, COR<sup>15</sup>, CO<sub>2</sub>R<sup>15</sup>, OC(O)R<sup>15</sup>, NR<sup>8</sup>COR<sup>15</sup>, N(COR<sup>15</sup>)<sub>2</sub>, NR<sup>8</sup>CONR<sup>16</sup>R<sup>15</sup>, NR<sup>8</sup>CO<sub>2</sub>R<sup>15</sup>, NR<sup>15</sup>R<sup>16</sup>, and CONR<sup>16</sup>R<sup>15</sup>;

n is independently at each occurrence 0, 1 or 2;

with the proviso that when R<sup>2</sup> is CO<sub>2</sub>Et and R<sup>3</sup> is Ph, R<sup>1</sup> is not H.

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8. (amended previously) The compound according to Claim 1 or 2 wherein R<sup>2</sup> is selected from 3-pentyl, NEt<sub>2</sub>, butyl, NHCH(CH<sub>2</sub>OMe)<sub>2</sub>, NHCH(CH<sub>2</sub>OEt)<sub>2</sub>, NHCH(Et)CH<sub>2</sub>OMe, NH-3-heptyl, NH-3-pentyl, NH-2-butyl, NH-3-hexyl, NHCH(CH<sub>2</sub>Ph)CH<sub>2</sub>OMe, NHCH(Et)CH<sub>2</sub>CH<sub>2</sub>OMe, NH-cyclobutyl, NH-cyclopentyl, NEtPr, NEtBu, NMePr, NMePh, Npr<sub>2</sub>, NPr(CH<sub>2</sub>-c-C<sub>3</sub>H<sub>5</sub>), N(CH<sub>2</sub>CH<sub>2</sub>OMe)<sub>2</sub>, morpholino, N(CH<sub>2</sub>Ph)CH<sub>2</sub>CH<sub>2</sub>OMe, N(Me)CH<sub>2</sub>CH<sub>2</sub>OMe, N(Et)CH<sub>2</sub>CH<sub>2</sub>OMe, N(CH<sub>2</sub>-c-C<sub>3</sub>H<sub>5</sub>)CH<sub>2</sub>CH<sub>2</sub>OMe, N(CH<sub>2</sub>-c-C<sub>3</sub>H<sub>5</sub>)Pr, N(CH<sub>2</sub>-c-C<sub>3</sub>H<sub>5</sub>)Et, OEt, OCH(Et)CH<sub>2</sub>OMe, OCH(Et)CH<sub>2</sub>CH<sub>2</sub>OMe, OCH(Me)CH<sub>2</sub>CH<sub>2</sub>OMe, O-3-pentyl, O-2-pentyl, S-3-pentyl, S-2-pentyl, SEt, S(O)Et, SO<sub>2</sub>Et, S-3-pentyl, S(O)-3-pentyl, SO<sub>2</sub>-3-pentyl, S-2-pentyl, S(O)-2-pentyl, SO<sub>2</sub>-2-pentyl, CH(CO<sub>2</sub>Et)<sub>2</sub>, C(Et)(CO<sub>2</sub>Et)<sub>2</sub>, CH(Et)CH<sub>2</sub>OH, CH(Et)CH<sub>2</sub>OMe,

CH(Et)CH<sub>2</sub>CH<sub>2</sub>OMe, CONMe<sub>2</sub>, COCH<sub>3</sub>, COEt, COPr, CO-2-pentyl, CO-3-pentyl, CH(OH)CH<sub>3</sub>, C(OH)Me<sub>2</sub>, C(OH)Ph-3-pyridyl, CH(OMe)CH<sub>3</sub>, CH(OMe)Et, CH(OMe)Pr, CH(OEt)CH<sub>3</sub>, CH(OPr)CH<sub>3</sub>, 2-pentyl, 2-butyl, cyclobutyl, cyclopentyl, CH(Me)cyclobutyl, CH(OMe)cyclobutyl, CH(OH)cyclobutyl, CH(Me)cyclopropyl, CH(OMe)cyclopropyl, CH(OH)cyclopropyl, CH(Et)cyclobutyl, CH(Et)cyclopropyl, CH(OMe)cyclobutyl, CH(OMe)cyclopropyl, CH(OEt)cyclobutyl, CH(OEt)cyclopropyl, CH(Me)CH<sub>2</sub>-cyclobutyl, CH(OMe)CH<sub>2</sub>-cyclobutyl, CH(OH)CH<sub>2</sub>-cyclobutyl, CH(Me)CH<sub>2</sub>-cyclopropyl, CH(OMe)CH<sub>2</sub>-cyclopropyl, CH(OH)CH<sub>2</sub>-cyclopropyl, CH(Et)CH<sub>2</sub>-cyclobutyl, CH(Et)CH<sub>2</sub>-cyclopropyl, CH(OMe)CH<sub>2</sub>-cyclobutyl, CH(OMe)CH<sub>2</sub>-cyclopropyl, CH(OEt)CH<sub>2</sub>-cyclobutyl, CH(OEt)CH<sub>2</sub>-cyclopropyl, CH(CH<sub>2</sub>OMe)cyclobutyl, CH(CH<sub>2</sub>OMe)cyclopropyl, CH(CH<sub>2</sub>OEt)cyclobutyl, CH(CH<sub>2</sub>OEt)cyclopropyl, CH(cyclobutyl)<sub>2</sub>, CH(cyclopropyl)<sub>2</sub>, CH(Et)CH<sub>2</sub>CONMe<sub>2</sub>, CH(Et)CH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub>, CH(CH<sub>2</sub>OMe)Me, CH(CH<sub>2</sub>OMe)Et, CH(CH<sub>2</sub>OMe)Pr, CH(CH<sub>2</sub>OEt)Me, CH(CH<sub>2</sub>OEt)Et, CH(CH<sub>2</sub>OEt)Pr, CH(CH<sub>2</sub>C≡CMe)Et, and CH(CH<sub>2</sub>C≡CMe)Et.

Claims 9 to 12. (canceled previously)

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13. (amended previously) A pharmaceutical composition comprising a compound according to Claim 1 or 2 and a pharmaceutically acceptable carrier.

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